

COMPUTER NETWORK

ASSIGNMENT No. 1

- Q1. Explain ISO OSI in detail with explanation of each layer explicitly.
- Q2. Explain TCP/IP.
- Q3. Differentiate between OSI and TCP/IP.
- Q4. Which of the following protocols are examples of TCP/IP transport layer protocols?
- Ethernet
 - HTTP
 - IP
 - UDP
 - SMTP
 - TCP
- Q5. Which of the following protocols are examples of TCP/IP network access layer protocols?
- Ethernet
 - HTTP
 - IP
 - UDP
 - SMTP
 - TCP
 - PPP
- Q6. Which OSI layer defines the functions of logical network-wide addressing and routing?
- Layer 1
 - Layer 2
 - Layer 3
 - Layer 4
 - Layer 5
 - Layer 6
 - Layer 7
- Q7. Which OSI layer defines the standards for cabling and connectors?
- Layer 1
 - Layer 2
 - Layer 3
 - Layer 4
 - Layer 5
 - Layer 6
 - Layer 7

Last date to submit the assignment is 30th January, 2014

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Q8. Which OSI layer defines the standards for data formats and encryption?

- a. Layer 1
- b. Layer 2
- c. Layer 3
- d. Layer 4
- e. Layer 5
- f. Layer 6
- g. Layer 7

Q9. Which of the following terms are not valid terms for the names of the seven OSI layers?

- a. Application
- b. Data link
- c. Transmission
- d. Presentation
- e. Internet
- f. Session

Q10. Explain following with merits and demerits:

- a. Bus Topology
- b. Ring Topology
- c. Star Topology
- d. Mesh Topology

Q11. What are the major advantages of STP over UTP?

Q12. Describe the components of fibre optic cable. Draw a picture.

Q13. What is the difference between network layer delivery and transport layer delivery?

Q14. What are the principles that were applied to arrive at the seven layers in OSI model?

Q15. Why transport layer protocols like TCP and UDP are called end-to-end protocols. What is the difference between them?

Q16. Differentiate between:

- (i) Baseband co-axial cable and broad band coaxial cable
- (ii) Optical fibre and twisted pair
- (iii) Radio waves and infrared and microwave

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